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Allowable Subject Matter

1. The following is a statement of reasons for the indication of allowable subject matter: The most relevant prior arts of reference was that of U.S. Pat No. 5,766,341 A and U.S. Patent No. 5,593,498 A (Kimbel, et al). However, they do not teach nor fairly suggest singularly or in any combination thereof a method of manufacturing a silicon single crystal, comprising rotating a quartz crucible for storing a silicon melt at a specified rotation speed, rotating a silicon single crystal ingot pulled from the silicon melt in an opposite direction to the rotation of the quartz crucible at a specified rotation speed, and pulling the silicon single crystal ingot at a pull rate such that an interior of the silicon single crystal ingot becomes a perfect region in which agglomerates of interstitial silicon point defects and agglomerates of vacancy point defects are absent: wherein an average rotation speed CR_{TAV} of the quartz crucible during the pulling of the top ingot portion of the silicon crystal ingot is set faster than an average rotation speed CR_{BAV} is set to be within the range of from 0.1 to 7 rpm.

Conclusion

2. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. See PTOL-892.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Felisa Hiteshew whose telephone number is (571) 272-1463. The examiner can normally be reached on Mondays through Thursday from 5:30 AM to 4:00 PM with Fridays off.

Art Unit: 1722

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Yogendra Gupta, can be reached on (571) 272-1316. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-1463.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system. see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866- 217-9197 (toll-free).

FELISA HITESHEW PRIMARY EXAMINER AU 1238